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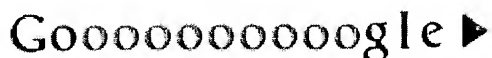
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1 **Global time-based synchronization of real-time multimedia streaming**
Moon Hae Kim; Eun Hwan Jo; Doo-Hyun Kim;
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Pages:101 - 108

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2 **An open architecture for digital communication systems.2. Creating enabling standards for a digital communication infrastructure**
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Multimedia, IEEE , Volume: 1 , Issue: 4 , Winter 1994
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11 Supporting distributed processing of time-based media streams
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Distributed Objects and Applications, 2001. DOA '01. Proceedings. 3rd
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1 **The effect of aging on erasure in particulate disk media**
Mountfield, K.R.; Kryder, M.H.;
Magnetics, IEEE Transactions on , Volume: 25 , Issue: 5 , Sep 1989
Pages:3638 - 3640

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2 **A simple, real-time range camera**
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Computer Vision and Pattern Recognition, 1989. Proceedings CVPR '89., IEEE Computer Society Conference on , 4-8 June 1989
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1 **Scene retrieval method for video database applications using temporal condition changes**
Abe, S.; Tonomura, Y.; Kasahara, H.;
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Data Modeling of Time-Based Media - Gibbs, Breiteneder, Tsichritzis (1994) (Correct) (37 citations)
are the basis of several computer-based digital **video editing** systems. For a given frame rate and
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A Multiple Hypothesis Approach to Figure Tracking - Tat-Jen Cham James (1998) (Correct) (36 citations)
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www.ctr.columbia.edu/~sundaram/pub/acm97.ps.gz

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Cost Analyses for VBR Video Servers - Chang, Zakhor (1996) (Correct) (23 citations)
than CDL but suffers from fragmentation during **video editing**. We show hybrid placement to have both
between lower cost in the CTL case or ease of **editing videos** in the hybrid case. Second, we have performed
arirang.snu.ac.kr/~leeko/MM/spie96.ps

Reservation Protocols for Internetworks: A Comparison of ST-II.. - Delgrossi (1993) (Correct) (18 citations)
interactive multimedia applications, e.g.for **video editing**, because short delays yield fast responses.
ftp.kom.e-technik.tu-darmstadt.de/pub/papers/ibm-enc/nossdav93.ps.gz

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in non-real-time mode for applications such as **video editing** and content-based analysis. Other types of
www.bell-labs.com/project/fellini/papers-dir/icmsc96-buffer.ps

The KRAFT Architecture for Knowledge Fusion and.. - Preece, Hui, Gray, Marti (1999) (Correct) (16 citations)
might specify that they want a PC for real-time **video editing** the system will need to extract candidate
ftp.csd.abdn.ac.uk/pub/apreece/es99_final.ps

Image Processing On Encoded Video Sequences - Farshid Arman Arding (1994) (Correct) (16 citations)
systems incorporating encoded video, such as **video editing** systems, various multimedia authoring
coefficients these operations may be used in **video editing** systems to perform such tasks as dissolving
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have broad applications in, to name a few, **video editing**, medical image query, and commodity markets
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Region-based representations of image and video.. - Salembier.. (1999)   (Correct)   (15 citations)
well at finding what has been done during the **video editing** process. Note that, in both cases, an
of the various objects. Another example is **video editing,** which creates a large number of
gps-tsc.upc.es/imatge/pub/ps/IEEE_CSVT99_Salembier_Marques.pdf

Name-It: Naming and Detecting Faces in News Video - Satoh, Sato, al. (1999)   (Correct)   (13 citations)
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www.ri.cmu.edu/pub_files/pub2/satoh_s_1996_1/satoh_s_1996_1.ps.gz

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Efficient Representations of Video Sequences and.. - Irani, Anandan.. (1996)   (Correct)   (13 citations)
low-bitrate video transmission, and interactive **video editing** and manipulation systems. These applications
video search and video indexing, efficient **video editing** and manipulation, and others. These
[22]and with respect to manipulating and **editing video** in video post-production environments.
ftp.wisdom.weizmann.ac.il/pub/irani/PAPERS/mosaics.ps.Z

Implementation and Evaluation of a Multimedia File System - Niranjan Transarc (1997)   (Correct)   (11 citations)
advantageous in environments such as nonlinear **video editing** that store and manipulate media streams as
by the following example, involving a **video edit**or that inserts a new frame between frame i and
www.ecsl.cs.sunysb.edu/tr/TR30.ps.Z

Towards Semantically Meaningful Feature Spaces For The.. - Vasconcelos, Lippman (1997)   (Correct)   (10 citations)

this goal, the design of a stochastic model for **video editing** which provides a transformation from the
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1 Response Time Analysis of Multiprocessor Computers for Database Support   ◼

Roger K. Shultz, Roy J. Zingg

March 1984 **ACM Transactions on Database Systems (TODS)**, Volume 9 Issue 1

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Comparison of three multiprocessor computer architectures for database support is made possible through evaluation of response time expressions. These expressions are derived by parameterizing algorithms performed by each machine to execute a relational algebra query. Parameters represent properties of the database and components of the machines. Studies of particular parameter values exhibit response times for conventional machine technology, for low selectivity, high duplicate occurrence, ...

2 Summary data: Handling summary information in a database: derivability   ◼

Hideto Sato

April 1981 **Proceedings of the 1981 ACM SIGMOD international conference on Management of data**

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"Summary data" is a representation of "groups of facts." Statistics are a typical example of summary data, which is often a major component of databases that deal with huge domains, such as objects in a whole country or events that occurred over a long time range. Although any summary can be reproduced from the corresponding originals, these are often unavailable and the required data may or may not be derivable from the given summary data. A schema of summary data is defined as a relationship b ...

3 Parallelism and concurrency control performance in distributed database machines   ◼

Michael J. Carey, Miron Livny

June 1989 **ACM SIGMOD Record , Proceedings of the 1989 ACM SIGMOD international conference on Management of data**, Volume 18 Issue 2

Full text available: 🔲 pdf(1.56 MB)

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While several distributed (or 'shared nothing') database machines exist in the form of prototypes or commercial products, and a number of distributed concurrency control algorithms are available, the effect of parallelism on concurrency control performance has received little attention. This paper examines the interplay between parallelism and transaction performance in a distributed database machine context. Four alternative concurrency control algorithms are considered, including two-phas ...

4   ◼

The design of an attorney's statistical consultant

L. S. Lutomski

May 1989 **Proceedings of the second international conference on Artificial intelligence and law**

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5 Support for repetitive transactions and ad hoc queries in System R

D. D. Chamberlin, M. M. Astrahan, W. F. King, R. A. Lorie, J. W. Mehl, T. G. Price, M. Schkolnick, P. Griffiths Selinger, D. R. Slutz, B. W. Wade, R. A. Yost

March 1981 **ACM Transactions on Database Systems (TODS)**, Volume 6 Issue 1

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System R supports a high-level relational user language called SQL which may be used by ad hoc users at terminals or as an embedded data sublanguage in PL/I or COBOL. Host-language programs with embedded SQL statements are processed by the System R precompiler which replaces the SQL statements by calls to a machine-language access module. The precompilation approach removes much of the work of parsing, name binding, and access path selection from the path of a running program, enabling high ...

Keywords: compilation, performance measurements, query languages, relational database systems, transaction processing

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6 Session 2: state-of-the-art tutorials: Hardware systems for text information retrieval

Lee A. Hollaar

June 1983 **Proceedings of the 6th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: ⬚ pdf(747.80 KB)   Additional Information: full citation, abstract, references

As databases become very large, conventional digital computers cannot provide satisfactory response time. This is particularly true for text databases, which must often be several orders of magnitude larger than formatted databases to store a useful amount of information. Even the standard techniques for improving system performance (such as inverted files) may not be sufficient to give the desired performance, and the use of an unconventional hardware organization may become necessary.A variety ...

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7 A temporally oriented data model

Gad Ariav

December 1986 **ACM Transactions on Database Systems (TODS)**, Volume 11 Issue 4

Full text available: ⬚ pdf(2.52 MB)   Additional Information: full citation, abstract, references, citings, index terms

The research into time and data models has so far focused on the identification of extensions to the classical relational model that would provide it with "adequate" semantic capacity to deal with time. The temporally oriented data model (TODM) presented in this paper is a result of a different approach, namely, it directly operationalizes the pervasive three-dimensional metaphor for time. One of the main results is thus the development of the notion of the data cube: a three-di ...

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8 Variable-depth trie index optimization: theory and experimental results

R. Ramesh, A. J. G. Babu, J. Peter Kincaid

March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1

Full text available: ⬚ pdf(2.59 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

We develop an efficient approach to Trie index optimization. A Trie is a data structure used to index a file having a set of attributes as record identifiers. In the proposed methodology, a file is horizontally partitioned into subsets of records using a Trie index whose depth of indexing is allowed to vary. The retrieval of a record from the file proceeds by "stepping through" the index to identify a subset of records in the file in which a binary search is

9 Access methods for multiversion data

David Lomet, Betty Salzberg

June 1989 **ACM SIGMOD Record , Proceedings of the 1989 ACM SIGMOD international conference on Management of data**, Volume 18 Issue 2

Full text available: pdf(1.11 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

We present an access method designed to provide a single integrated index structure for a versioned timestamped database with a non-deletion policy. Historical data (superceded versions) is stored separately from current data. Our access method is called the Time-Split B-tree. It is an index structure based on Malcolm Easton's Write Once B-tree. The Write Once B-tree was developed for data stored entirely on a Write-Once Read-Many or WORM optical ...

10 An experimental system for creating and presenting interactive graphical documents

S. Feiner, S. Nagy, A. van Dam

January 1982 **ACM Transactions on Graphics (TOG)**, Volume 1 Issue 1

Full text available: pdf(3.53 MB)   Additional Information: full citation, references, citings, index terms

Keywords: maintenance and repair, pictorial information systems

11 Session 7: The temporal query language TQuel

Richard Snodgrass

April 1984 **Proceedings of the 3rd ACM SIGACT-SIGMOD symposium on Principles of database systems**

Full text available: pdf(998.12 KB)   Additional Information: full citation, abstract, references, citings

Recently, attention has been focussed on historical databases (HDBs), representing an enterprise over time. We have developed a new language, TQuel, to query an HDB. TQuel is a superset of Quel, the query language in the Ingres relational database management system. This paper provides an overview of the language, motivating the various design decisions with the objective that it be a minimal extension, both syntactically and semantically, of Quel.

12 Dissertation Abstracts in Computer Graphics

April 1989 **ACM SIGGRAPH Computer Graphics**, Volume 23 Issue 2

Full text available: pdf(1.40 MB)   Additional Information: full citation, abstract

The response to the publication of abstracts from masters and doctoral theses in computer graphics has been overwhelmingly positive. This has not, however, increased the number of schools participating. In fact, the number of schools represented in this year's list has dropped by 65 percent, and only three schools have participated both years. (Three additional schools are represented both years due to abstracts accidentally omitted from last year's list).Since there are limited opportunities to ...

13 The ADAM advanced design automation system: overview, planner and natural language interface

John Granacki, David Knapp, Alice Parker

June 1985 **Proceedings of the 22nd ACM/IEEE conference on Design automation**

Full text available: pdf(388.94 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes ADAM, an integrated Advanced Design AutoMation system, with focus on the knowledge-based synthesis subsystem. Working parts of this subsystem include a number of design activities and utilities, and a unified, multidimensional, hierarchical design representation. Two aspects of the synthesis subsystem are described in detail: the design

planner and the natural language interface. The planner builds a plan for synthesis and analysis activities, drawing inferences from a ...

14 DALI-a knowledge base management system

C. F. Eick, R. Kochhar, S. Kumar

June 1988 **Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**

Full text available: pdf(1.04 MB)   Additional Information: full citation, references, citings, index terms

15 Monitoring and performance measuring distributed systems during operation

D. Wybranietz, D. Haban

May 1988 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1988 ACM SIGMETRICS conference on Measurement and modeling of computer systems**, Volume 16 Issue 1

Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes an integrated tool for monitoring distributed systems continuously during operation. A hybrid monitoring approach is used. As special hardware support a test and measurement processor (TMP) was designed, which is part of each node in an experimental multicomputer system. Each TMP runs local parts of the monitoring software for its node, while all the TMPs are connected to a central test station via a separate TMP interconnection network. The monitoring system is transpa ...

16 A society model for office information systems

Cheng-Seen Ho, Yang-Chang Hong, Te-Son Kuo

July 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 2

Full text available: pdf(2.24 MB)   Additional Information: full citation, abstract, references, index terms, review

A society model, which characterizes the behavior and procedure of offices, is proposed. It is our belief that an office system capable of dealing with all real office problems only through the modeling of the internal behavior of an office can be developed. In this society model, office entities are viewed as agents. An agent is modeled as a microsociety of interacting knowledge sources. Within the microsociety, there exists a micr ...

17 A reliable object-oriented data repository for a distributed computer system

Liba Svobodova

December 1981 **Proceedings of the eighth ACM symposium on Operating systems principles**

Full text available: pdf(1.18 MB)   Additional Information: full citation, abstract, references, citings, index terms

The repository described in this paper is a component of a distributed data storage system for a network of many autonomous machines that might run diverse applications. The repository is a server machine that provides very large, very reliable long-term storage for both private and shared data objects. The repository can handle both very small and very large data objects, and it supports atomic update of groups of objects that might be distributed over several repositories. Each object is ...

Keywords: Atomic update, Crash recovery, Distributed data storage system, Memory management, Optical disk, Server, Stable storage

18 Information retrieval using a hypertext-based help system

F. R. Campagnoni, Kate Ehrlich

July 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 3

Full text available: pdf(1.41 MB)   Additional Information: full citation, abstract, references, citings, index

Hypertext offers users a simple, flexible way to navigate through electronic information systems but at the potential risk of becoming lost in the network of interconnected pieces of information. A study was conducted on information retrieval using a commercial hypertext-based help system. It was found that the predominant search strategy was "browsing" (characterized by scanning tables of contents and paging through topics), rather than employing the indexes ("analytical search ...

19 Computer conferencing at the University of Arizona

B. H. Maginnis

October 1989 **Proceedings of the 17th annual ACM SIGUCCS conference on User Services**

Full text available: pdf(540.26 KB)   Additional Information: full citation, index terms

20 MAHA: a program for datapath synthesis

Alice C. Parker, Jorge T. Pizarro, Mitch Mlinar

July 1986 **Proceedings of the 23rd ACM/IEEE conference on Design automation**

Full text available: pdf(585.34 KB)   Additional Information: full citation, abstract, references, citings, index terms

MAHA is a program which implements an algorithm for register level synthesis of data paths from a data flow specification. The algorithm is based on a linear hardware assignment to critical path nodes, followed by a cost-based assignment using the concept of the freedom of a node to be scheduled. Functions with the least scheduling freedom are scheduled first. The program either minimizes cost, subject to a time constraint, or maximizes speed subject to a cost constraint. The implementation ...

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1 Virtual video editing in interactive multimedia applications   ▮
Wendy E. Mackay, Glorianna Davenport
July 1989   **Communications of the ACM**, Volume 32 Issue 7

Full text available: 🔲 pdf(2.33 MB)   Additional Information: full citation, abstract, references, citings, index terms

> Drawing examples from four interrelated sets of multimedia tools and applications under development at MIT, the authors examine the role of digitized video in the areas of entertainment, learning, research, and communication.

2 The coming revolution in interactive digital video   ▬
Edward A. Fox
July 1989 **Communications of the ACM**, Volume 32 Issue 7

Full text available: 🔲 pdf(6.50 MB)   Additional Information: full citation, references, citings, index terms

3 Future directions in desktop video   ▬
T. Heidmnn, M. MacKay, G. MacNicol, F. Wray
July 1989   **ACM SIGGRAPH Computer Graphics , ACM SIGGRAPH 89 Panel Proceedings**, Volume 23 Issue 5
Full text available: 🔲 pdf(2.66 MB)   Additional Information: full citation, abstract, index terms

> Good morning. My name is Tim Heidmann and I'd like to welcome you all to this panel, which is entitled Future Directions in Desktop Video, and I'd especially like to thank all you people who stayed up a little late on Thursday night to come to this panel. It's really good to see you all out there.
>
> I've gotten word that this panel is being transcribed. They're putting together a booklet, so they're taking the slides and the stills from the videos and all the things that we're ...

4 Distributed scientific video movie making   ▬
W. E. Johnston, D. E. Hall, J. Hang, M. Rible, D. Robertson
November 1988 **Proceedings of the 1988 ACM/IEEE conference on Supercomputing**

Full text available: 🔲 pdf(1.48 MB)   Additional Information: full citation, abstract, references, citings, index terms

> We describe a versatile, low cost, video movie making system for generating and displaying scientific graphics from remote supercomputers. The system makes video movies by single frame animation from the output of time dependent, numerical simulations typically done on supercomputers. The system uses extensive data compression to permit its use over wide area, as well as local area networks. The system demonstrates an easily used, elementary visualization capability for time dependent data ...